

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of
Nirmala CHANDRASEKHARAN,
Ronak MEHTA, Soumi SAHA
and Brian M. CULLUM

Serial No.: NEW

Filed: November 26, 2003

For: MULTIPHOTON PHOTOACOUSTIC SPECTROSCOPY SYSTEM AND METHOD

INFORMATION DISCLOSURE STATEMENT

U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window
Crystal Plaza Two, Lobby, Room 1B03
Arlington, Virginia 22202

Sir:

Pursuant to 37 C.F.R. 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. One copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the indicated date. Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, that information cited in the statement is considered to be and/or is material to patentability, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that was cited or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120. 1138 OG 37, 38 (May 19, 1992).

- ☒ 1. This Information Disclosure Statement is being filed (i) within three months of the U.S. filing date of a U.S. application other than a CPA continued prosecution application under §1.53(d) OR (ii) within three months of the date of entry of the national stage as set forth in §1.491 in an international application OR (iii) before the mailing date of a first Office Action on the merits OR (iv) before the mailing of a first Office Action after the filing of a Request for continued examination under §1.114. No certification or fee is required. 37 C.F.R. §1.97(b).
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection OR Notice of Allowance OR an action that otherwise closes prosecution in the application. 37 C.F.R. §1.97(c).

- ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(1).
- ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. 1.97(e)(2).
- ☐ c. Attached is our check no. _____ in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached.
- ☐ 3. This Information Disclosure Statement is being filed after the mailing date of a Final Rejection OR Notice of Allowance OR an action that otherwise closes prosecution in the application, but on or before payment of the Issue Fee. Attached is our check no. _____ in the amount of \$180.00 in payment of the fee under 37 C.F.R. 1.17(p). Please credit or debit Deposit Account No. 16-0607 as needed to ensure consideration of the disclosed information. Two duplicate copies of this paper are attached. 37 C.F.R. §1.97(d).
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- ☐ 4. Others:
- ☒ 5. To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
FLESHNER & KIM, LLP



Rene A. Vazquez
Registration No. 38,647
Samuel W. Ntiros
Registration No. 39,318

Correspondence Address:
P.O. Box 221200
Chantilly, VA 20153-1200
Telephone: (703) 502-9440
Date: November 26, 2003
MLF:RAV:SWN/kdb

LIST OF PRIOR ART CITED BY APPLICANT (PTO-1449)				ATTY. DOCKET NO. UMBC-0011		APPLN. SERIAL NO. NEW	
				APPLICANT(S) Nirmala CHANDRASEKHARAN et al.			
				FILING DATE November 26, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	*PATENT NO.	*ISSUE DATE	*INVENTOR NAME	CLASS	SUBCLASS	FILING DATE	
	6,413,267	07/02/02	Dumoulin-White et al.				
	5,954,658	09/21/99	Gorti				
	3,808,439	04/30/74	Renius				
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
OTHER ART (Including Author, Title, Date, Pertinent Pages, Publisher, Place of Publication, Etc.)							
	Caspers et al. "Combined In Vivo Confocal Raman Spectroscopy and Confocal Microscopy of Human Skin," Biophysical Journal, Volume 85, July 2003, pages 572-580						
	Kamioka, et al. "A Three-dimensional Distribution of Osteocyte Processes Revealed by the Combination of Confocal Laser Scanning Microscopy and Differential Interference Contrast Microscopy," Bone Volume 28, No. 2, February 2001, pages 145-149						
	Grotz, et al. "Confocal Laser Scanning Microscopy: A Nondestructive Subsurface Histotomography of Healthy Human Bone," CALCIF Tissue Int., Volume 65, pages 8-10, 1999						
	Guo et al. "Subsurface Tumor Progression Investigated by Noninvasive Optical Second Harmonic Tomography," Proc. Natl. Acad. Sci., Volume 96, pages 10854-10856, 1999						
	Barton et al. "Three-Dimensional Reconstruction of Blood Vessels from in vivo Color Doppler Optical Coherence Tomography Images," Dermatology, Volume 198, pages 355-361, 1999						
	Afanasyeva, et al. "Biomedical, Environmental and Industrial Application of Fiberoptical Infrared Spectroscopy," Subsurface Sensing Technologies and Applications II, pages 272-283 (2000)						
	Hoelen et al. "Non-destructive Photoacoustic Subsurface Tissue Imaging: A Feasibility Study," SPIE, Volume 2628, pages 308-318,						
EXAMINER				DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.